

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
 US Department of Commerce  
 United States Patent and Trademark  
 Office, PCT  
 2011 South Clark Place Room  
 CP2/5C24  
 Arlington, VA 22202  
 ETATS-UNIS D'AMERIQUE  
 in its capacity as elected Office

Date of mailing (day/month/year)

30 May 2001 (30.05.01)

International application No.

PCT/NO00/00326

Applicant's or agent's file reference

PS4300 IN

International filing date (day/month/year)

04 October 2000 (04.10.00)

Priority date (day/month/year)

04 October 1999 (04.10.99)

Applicant

JENSSEN, Inge, Henning

1. The designated Office is hereby notified of its election made:



in the demand filed with the International Preliminary Examining Authority on:

23 April 2001 (23.04.01)



in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO  
 34, chemin des Colombettes  
 1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Nestor Santesso

Telephone No.: (41-22) 338.83.38

PCT

NOTIFICATION OF THE RECORDING  
OF A CHANGE

(PCT Rule 92bis.1 and  
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

OSLO PATENTKONTOR AS  
P.O. Box 7007 M  
N-0306 Oslo  
NORVÈGE

Date of mailing (day/month/year) 12 December 2001 (12.12.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PS4300 IN	
International application No. PCT/NO00/00326	International filing date (day/month/year) 04 October 2000 (04.10.00)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input checked="" type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address JENSSEN, Inge, Henning Hansjordnes gate 8 N-9009 Tromsø Norway	State of Nationality NO	State of Residence NO
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input type="checkbox"/> the person	<input type="checkbox"/> the name	<input checked="" type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence
Name and Address JENSSEN, Inge, Henning Kveldroegen 9 N-9007 Tromsø Norway	State of Nationality NO	State of Residence NO
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Anne KARKACHI
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 25 JUL 2001

WIPO

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Applicant's or agent's file reference PS4300 IN	<b>FOR FURTHER ACTION</b>	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/NO00/00326	International filing date (day/month/year) 04.10.2000	Priority date (day/month/year) 04.10.1999
International Patent Classification (IPC) or national classification and IPC <sub>7</sub> A01K 63/02		
Applicant Jenssen, Inge Henning		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.  
☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  
These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand  23.04.2001	Date of completion of this report  21.06.2001
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer  Göran Carlström/js Telephone No. 08-782 25 00

Form PCT/IPEA/409 (cover sheet) (January 1998)

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NO00/00326

## I. Basis of the report

1. With regard to the **elements** of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.These elements were available or furnished to this Authority in the following language English which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheet/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NO00/00326

**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	<u>1-5</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-5</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-5</u>	YES
	Claims		NO

**2. Citations and explanations (Rule 70.7)**

The claimed invention is not considered to be anticipated by the patent document cited. This document does not reveal the device for storing and transporting live fish described in the claims.

The invention according to claims 1- 5 is therefore considered to be novel, to involve an inventive step and to be industrially applicable.

GB 730652 A (ERNST KARL ROSCHER)

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
12 April 2001 (12.04.2001)

PCT

(10) International Publication Number  
**WO 01/24623 A1**

(51) International Patent Classification<sup>7</sup>: **A01K 63/02**

(21) International Application Number: **PCT/NO00/00326**

(22) International Filing Date: **4 October 2000 (04.10.2000)**

(25) Filing Language: **Norwegian**

(26) Publication Language: **English**

(30) Priority Data:  
19994839 4 October 1999 (04.10.1999) **NO**

(71) Applicant and

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(74) Agent: **OSLO PATENTKONTOR AS; P.O. Box 7007 M, N-0306 Oslo (NO).**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

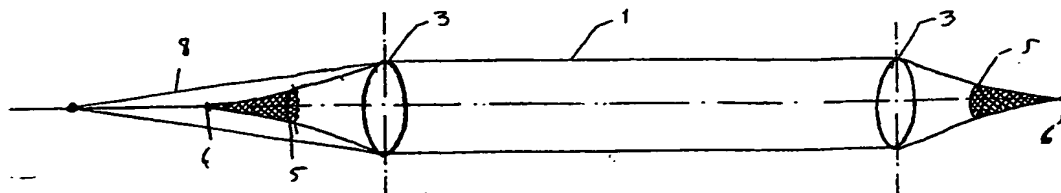
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **EQUIPMENT FOR STORAGE AND TRANSPORT OF LIVING FISH**



(57) Abstract: A fish bag (1, 1') comprising a netting with bag rings (3) and at the end a second netting (4) with purse lines (5, 6) and a towing line (9). One or more braces (9) and locking rings (8) to connect several fish bags (1) into larger units.

**WO 01/24623 A1**

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 00/00326

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A01K 63/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 730652 A (ERNST KARL ROSCHER), 25 May 1955 (25.05.55), page 2, column 54 - line 80, figure 1  -- -----	1,3,5

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

9 January 2001

Date of mailing of the international search report

17-01-2001

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Authorized officer

Caroline Stolt/js  
Telephone No. +46 8 782 25 00

### Information on patent family members

International application No.

PCT/NO 00/00326

Form PCT/ISA/210 (patent family annex) (July 1998)

WO 01/24623

PCT/NO00/00326

6/pvt/

**Equipment for storage and transport of living fish.**

The present invention concerns primarily a device for storage and transport of living fish, where the device is sausage-formed and the transport is preferably performed by this being towed after a boat.

The harvesting of the sea in the form of fishing is the largest and oldest business in this country through history. Today the fish export, disregarding the petrol area, is Norway's largest business money-wise, and the assurance of deliveries of products of high quality is of decisive importance for it to remain a large industry also in the future.

There are dumped large quantities of fish because the capacity of transporting it ashore is not present, and it is also not of the proper quality.

There are several factors interacting to determine the quality of the fish and the fish products when they arrive at the consumers somewhere in the world. When the fish die, a process starts in the fish meat giving it a poorer quality. The quality of the fish meat arriving at the consumer may be improved by waiting for the longest possible time before killing the fish so that the degradation process has been going on for as short a time as possible. The further treatment of the fish in the form of processing, refining, storage and transport should be made as short as possible under the most suitable conditions to maintain the quality.

The delaying of the time for the sacrificing of the fish and thus the starting of the decaying process, is a method that has been used in many connections also in former times through history. In seasons with e.g. a good supply of sails and perhaps a lack of capacity in the receiving country, the containment of fish in enclosures has been

common. This is done by the fish caught alive being imprisoned in a netting bag being anchored until it is fetched and is hoisted into a supply ship or the netting bag is towed to a receiving plant for fish. Fish that are  
5 imprisoned in such an enclosure will be standing very cramped under perhaps poor current conditions, and this stresses the fish, something that again reduces the quality and the fish die.

There are used well supply ships for transporting the fish  
10 from the netting enclosures. The well supply ships are equipped with tanks into which there is pumped seawater and wherein fish are kept during their transport and reception. Well supply ships is an expensive solution when considering that in many instances a lot of fish die in the netting  
15 enclosures before the ships collect them, so the economical result of the fish may not be worthwhile in many cases.

In Norwegian patent no. 20.850 there is disclosed a storage unit for live fish comprising floats in both ends and between these a netting-cage for storing fish. Such a  
20 solution is suitable for storing fish, is more expensive than required, and does not represent any good solution with respect to transport. The transport of fish in any such device will have its limitation in how fast it may be transported for the fish to survive, and this is not any  
25 economically suitable speed for the transport per se.

Norwegian patent no. 81.500 discloses a container for collecting fish from a trawl and for further transport of the collected live fish to a receiving plant and for  
30 shorter storage. The collector is tied to a trawling bag and is not regarded as any suitable way to store and transport fish with respect to maintaining quality and avoid fish death.

In addition to the transporting of fish in a more or less hydrodynamic device, fish are transported in netting bags,

a keeping netting. The towed keeping netting may not exceed a speed of 2-3 knots, something that is very time-consuming. Such solutions are disclosed in Norwegian patents nos. 24.069 and 52.761. The former discloses a  
5 seine bag being kept extended by a floating body, and a boat pulls the entire device. A speed exceeding 2-3 knots will be stressing for the fish and will create conditions increasing the mortality. In no. 52.761 there is disclosed a somewhat similar device, but here it is emphasised that  
10 there exist devices in addition to the seine netting which keep this inflated to avoid it being crushed during transport.

A container for transporting live fish, which also includes a penetrating current of water, appears from Norwegian  
15 patent no. 105.955. A penetrating current which may be reduced by one end partly comprising a solid grating or by one end being funnel-shaped. This to reduce the towing resistance and prevent the death of fish.

The purpose of the present invention is to provide a device  
20 being suited for storage and transport of live fish for transport velocities far exceeding (10-20 knots) what the fish would endure outside the device, but without it disparaging the environment. The invention has as one of its goals a price so that it will be competitive in view of  
25 what exist of transport devices for live fish.

This is achieved by a fish netting being secured in both ends with netting rings, and where at least one end is equipped with one netting and a funnel with a pursing mechanism.

30 Further details of the invention will be apparent from the disclosure infra of an exemplary embodiment thereof under reference to the figures.

Figure 1 depicts a basic form of the invention.

Figure 2 depicts a connection between several units into larger bags.

Figure 3 depicts connective devices for several units into  
5 larger bags.

Figure 4 depicts a detailed view of the outer enclosure according to the invention.

Figure 5 depicts the invention equipped with a brace and an anchoring of the bag.

10 Figure 6 depicts the fish bag during the transport with an additional external netting.

The invention comprises a fish bag 1 being made of strong webbing. If extra strength is wanted during e.g. transport, it is possible to sheath the entire fish bag 1  
15 in a first netting 2. See figure 6. The fish bag 1 is tubular and is equipped with a bag ring 3 at both ends somewhat inside the end to keep the tube extended. To the ends of the fish bag 1 there is located a tubular second netting 4. At the transition between the fish bag 1 and the  
20 second netting 4, there is located a first purse line 5. A second purse line 6 is located in the second end of the second netting 4. Through these purse lines 5,6 the fish bag 1 may be pursed and be closed at the end so that fish do not escape, but it will be possible to determine and  
25 regulate the through-flow of water in the fish bag 1. This is depicted in the figures 1 and 4.

Several fish bags 1 may be connected into larger units as indicated in figure 2. The connection is performed by the bag rings 3 from fish bags 1 being placed adjacent to one  
30 another and being interconnected through a locking ring 7. See figure 3. In the connection there will thus be present such funnel-shaped units, one from each fish bag 1. When the fish bag 1,1' is to be towed behind a boat, extra towing lines 8 between the boat and the bag ring 3 may be  
35 applied.

During transport of fish in the fish bag 1,1' the first purse line 5 is closed and the second purse line 6 is completely closed so that flow-through of water is made suitably rapid and comfortable for the fish. The fish bag 1 may be transported at great speed to its destination without the fish becoming injured or dead.

By employing the present invention fish may be towed ashore and may be stored live until the reception obtains the required capacity or until the market offers the required price. Furthermore, the fish may be towed alive as close as possible to the relevant market prior to it being slaughtered.

According to reports from the Ministry of Fishery a larger number of receptacles for fish along the coast will be closed within a short time. This means a longer transport for delivery of fish and a larger need for transport of the fish alive for maintaining its quality.

When maintaining the fish bag 1,1' in the sea for live storage of the fish, there may along the fish bag 1,1' be located braces 9 in the form of e.g. pipes. See figure 5. These may also function as a scaffolding for persons caring for the fish. The fish bag 1 may be equipped with current providers in the form of motorised propellers to obtain the required through-flow of water when the fish bag 1 is stationary, e.g. in the capacity of a fish farming plant.

## C l a i m s

1. Device for storing and transporting live fish,  
c h a r a c t e r i z e d i n a fish bag (1) being  
equipped at both ends with bag rings (3), and at said ends  
5 there being arranged a second netting (4) with purse lines  
(5,6)
2. Device for storing and transporting live fish according  
to claim 1,  
c h a r a c t e r i z e d i n that several fish bags  
10 (1) are coupled together through locking rings (7).
3. Device for storing and transporting live fish according  
to any of the preceding claims,  
c h a r a c t e r i z e d i n that at one end of the  
fish bag (1,1') there are located towing lines (8).
- 15 4. Device for storing and transporting live fish according  
to claim 1,  
c h a r a c t e r i z e d i n that there is applied at  
least one brace (9) to the fish bag (1,1').
5. Device for transporting and storing live fish according  
20 to claim 1  
c h a r a c t e r i z e d i n that around the fish bag  
(1) there is located a first netting (2).

**ABSTRACT**

A fish bag (1,1') comprising a netting with bag rings (3) and at the end a second netting (4) with purse lines (5,6) and a towing line (9) and locking rings (8) to connect several fish bags (1) into larger units.

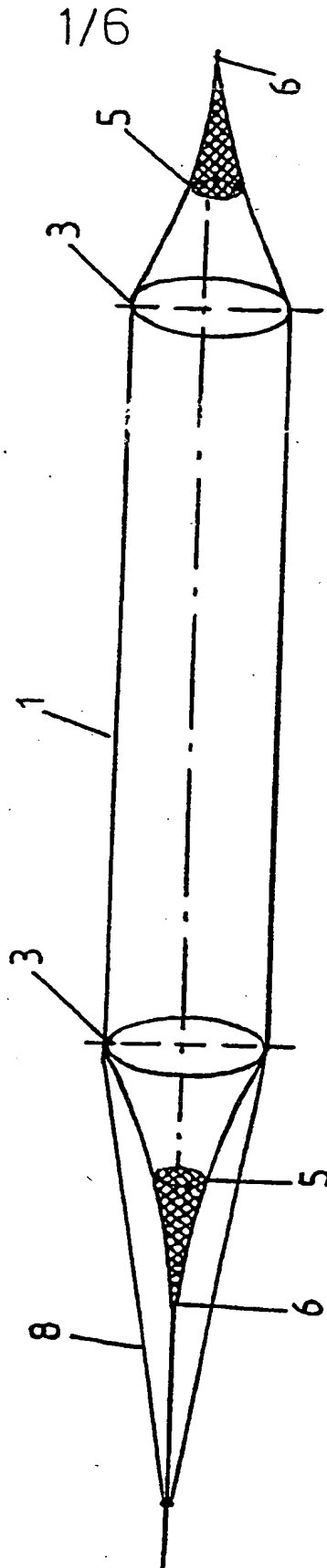


Fig.1

2/6

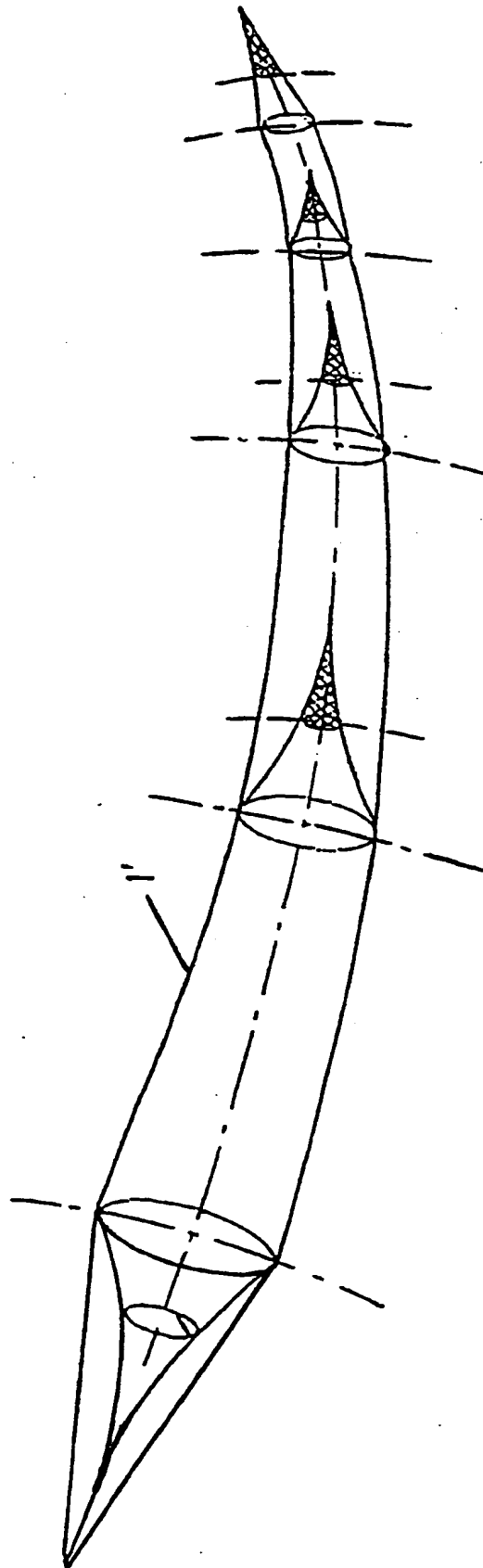


Fig.2

3/6

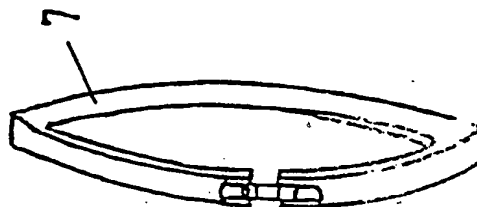


Fig.3c

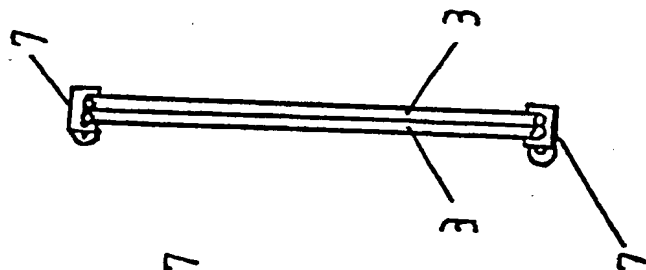


Fig.3b

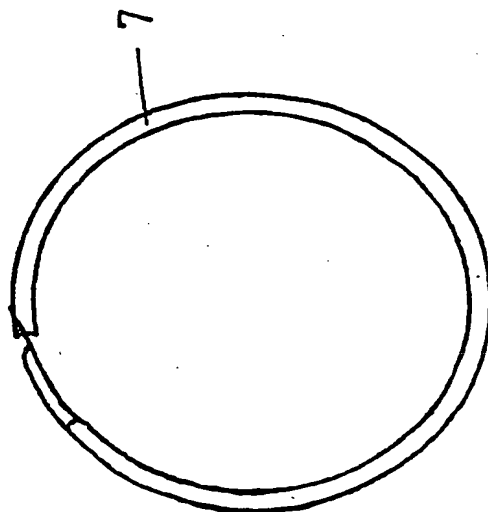


Fig.3a

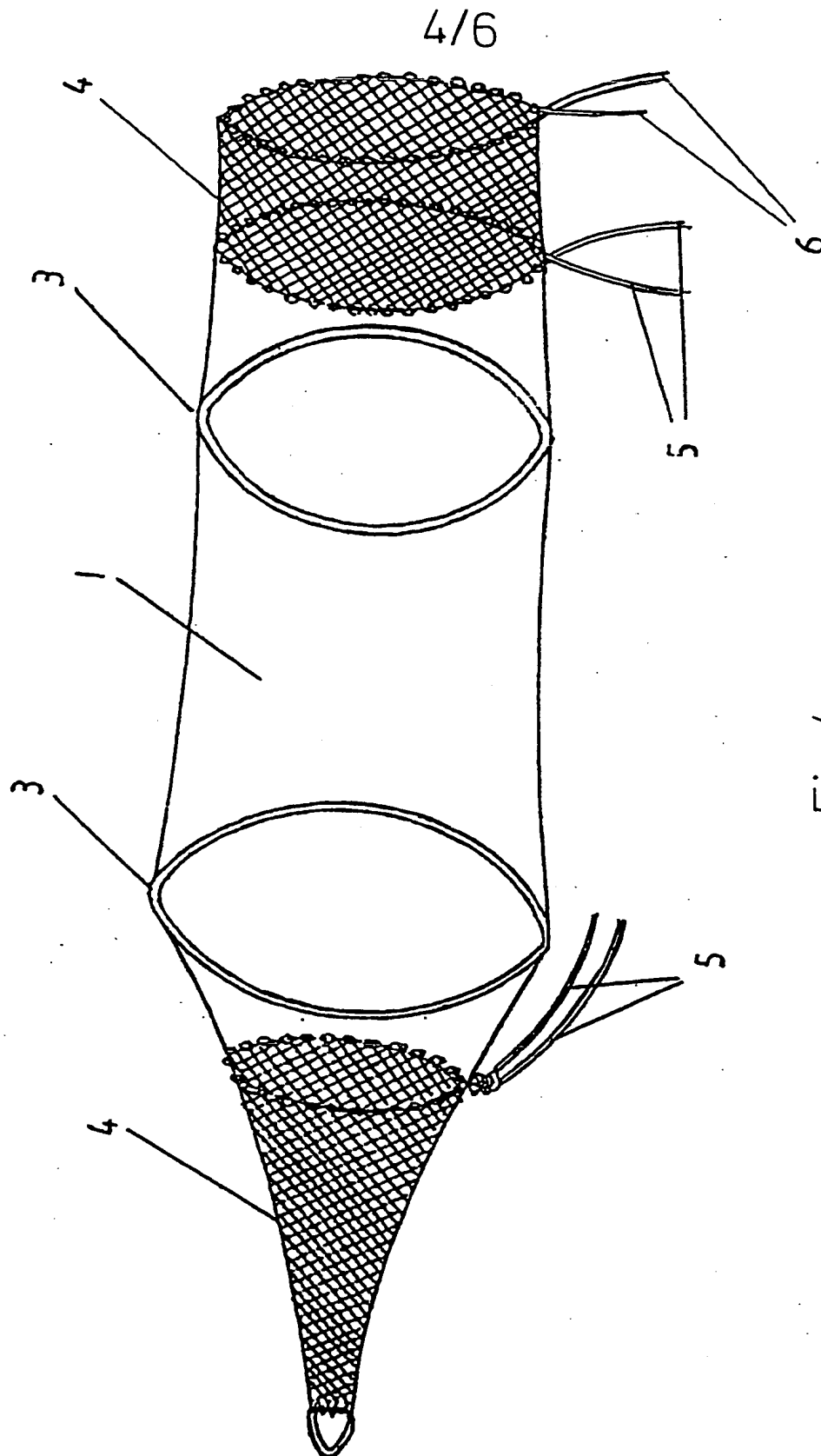
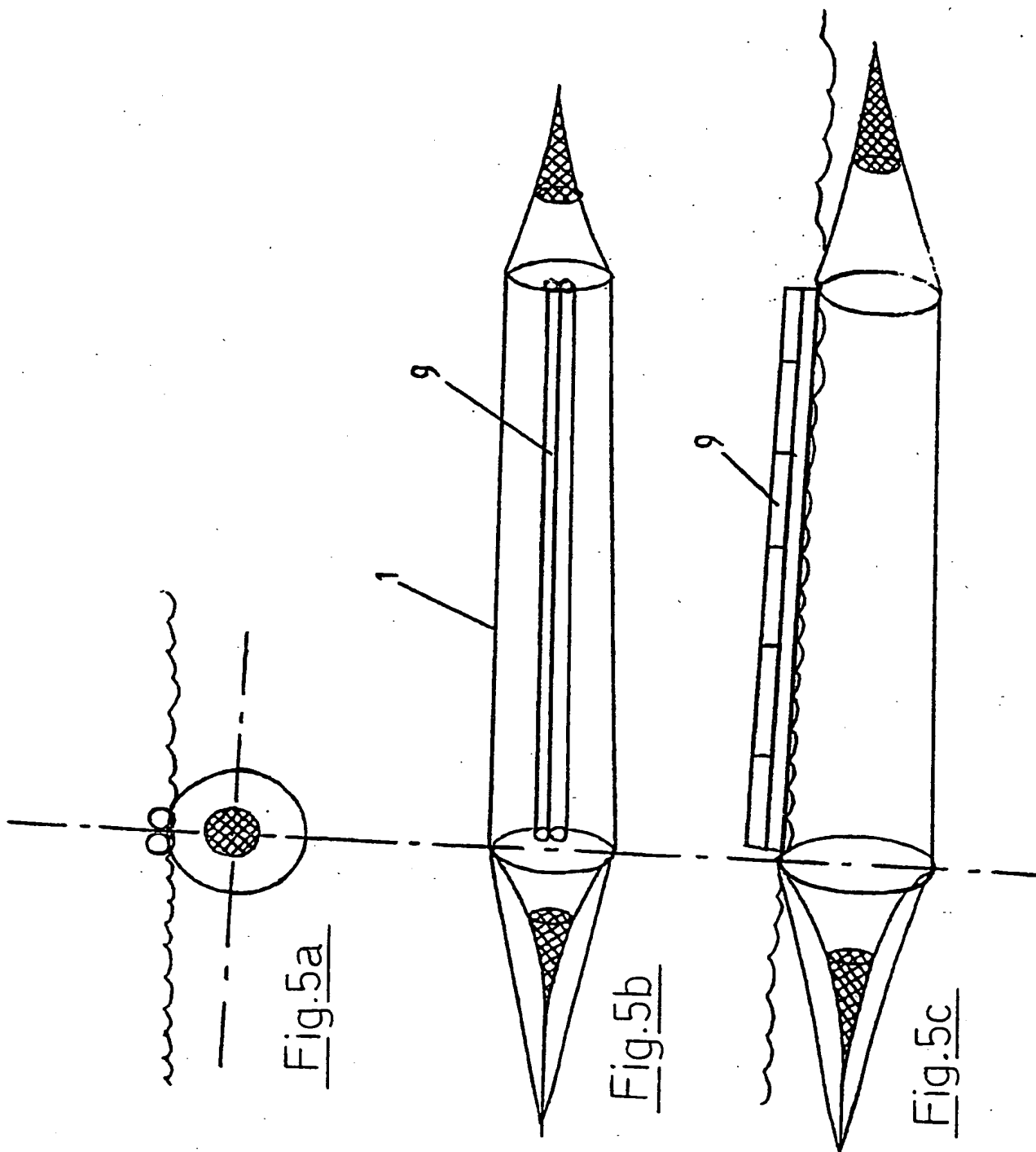


Fig.4

5/6



6/6

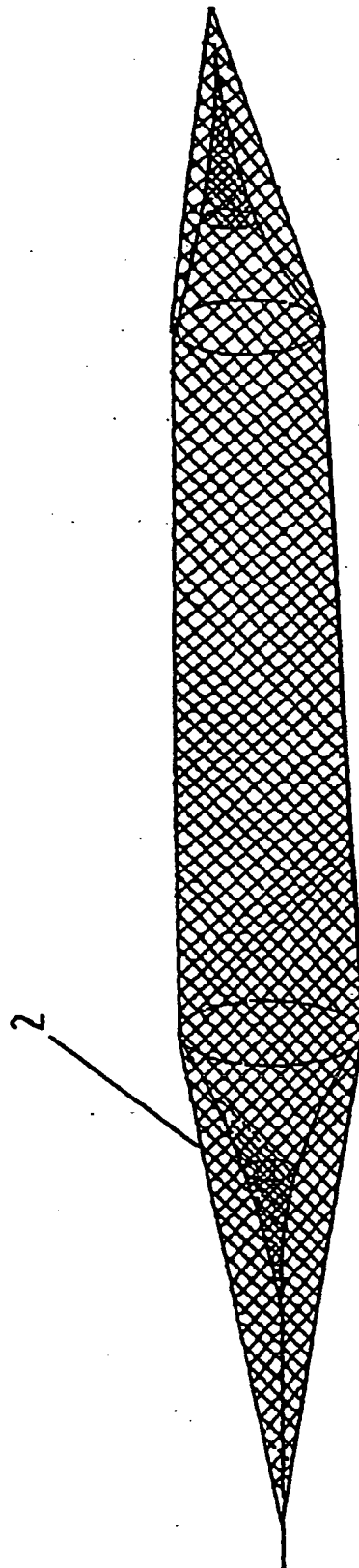


Fig.6

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 00/00326

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A01K 63/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 730652 A (ERNST KARL ROSCHER), 25 May 1955 (25.05.55), page 2, column 54 - line 80, figure 1  -----	1,3,5

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

9 January 2001

Date of mailing of the international search report

17 -01- 2001

Name and mailing address of the ISA:

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Caroline Stolt/js

Telephone No. +46 8 782 25 00

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

04/12/00

International application No.  
**PCT/NO 00/00326**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB	730652	A	25/05/55
NONE			

# PCT

## POWER OF ATTORNEY

(for an international application filed under the Patent Cooperation Treaty)

(PCT Rule 90.4)

The undersigned applicant(s) (Names should be indicated as they appear in the request):

Inge Henning Jenssen  
Hansjordnessgt. 8  
N-9009 TROMSØ  
Norway

hereby appoints (appoint) the following person as:

☒ agent

☐ common representative

Name and address

(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Oslo Patentkontor AS  
P.O.Box 7007 M  
N-0306 OSLO  
Norway

to represent the undersigned before

☒ all the competent International Authorities

☐ the International Searching Authority only

☐ the International Preliminary Examining Authority only

in connection with the international application identified below:

Title of the invention: Equipment for storage and transport of  
living fish

Applicant's or agent's file reference: 142977

International application number (if already available): PCT/N000/00326

filed with the following Office The Norwegian Patent Office as receiving Office  
and to make or receive payments on behalf of the undersigned.

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Inge Henning Jenssen

Date:

Inge Henning Jenssen



PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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PCT/NO 00 / 00326

International Application No.

2000 -10- 04

International Filing Date



PATENTSTYRET

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**Box No. I TITLE OF INVENTION**

EQUIPMENT FOR STORAGE AND TRANSPORT OF LIVING FISH

**Box No. II APPLICANT**

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The person identified below is hereby/has been appointed to act on behalf  
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agent



common representative

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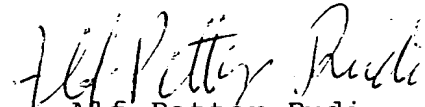
**Regional Patent**

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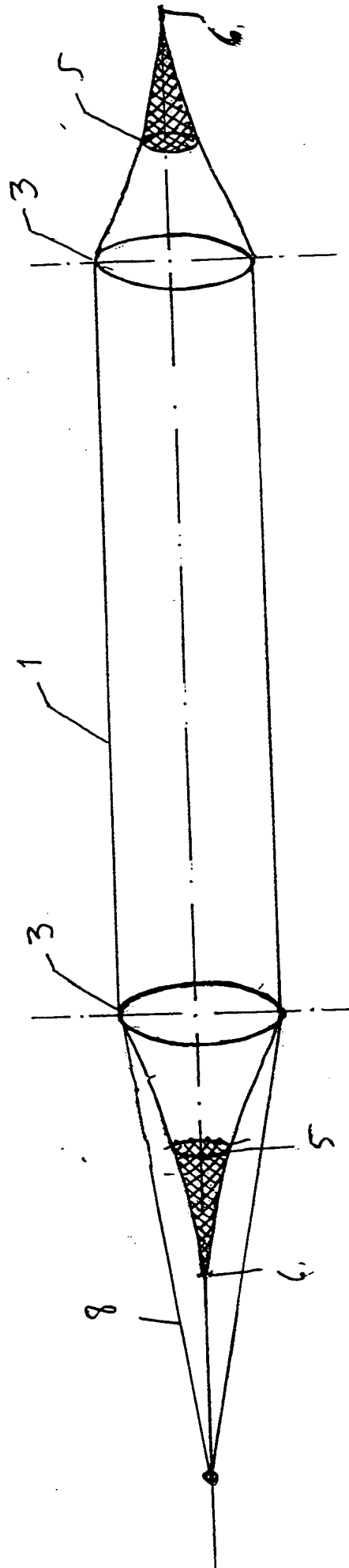
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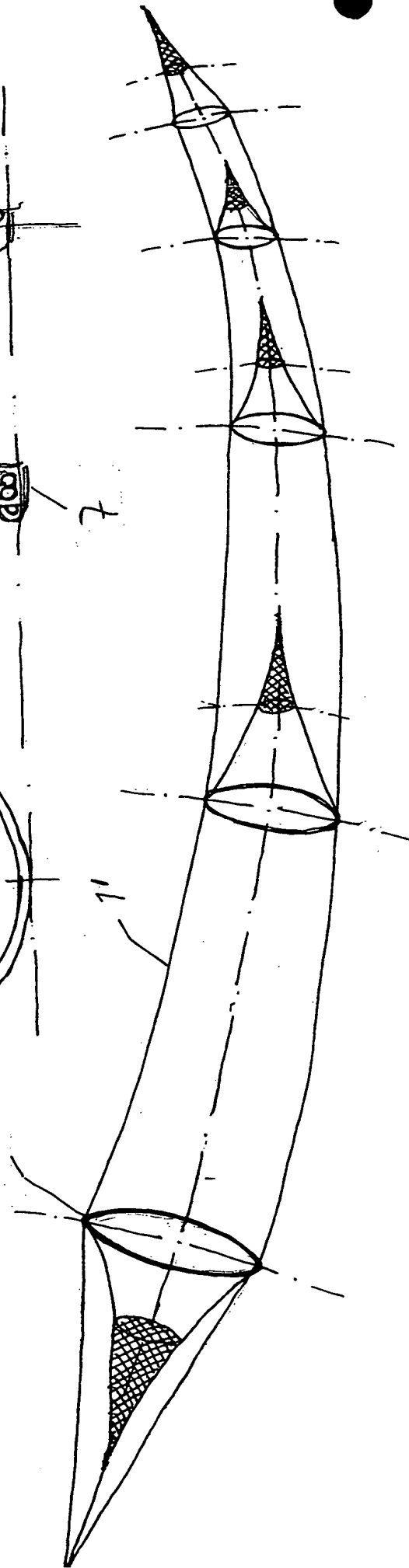
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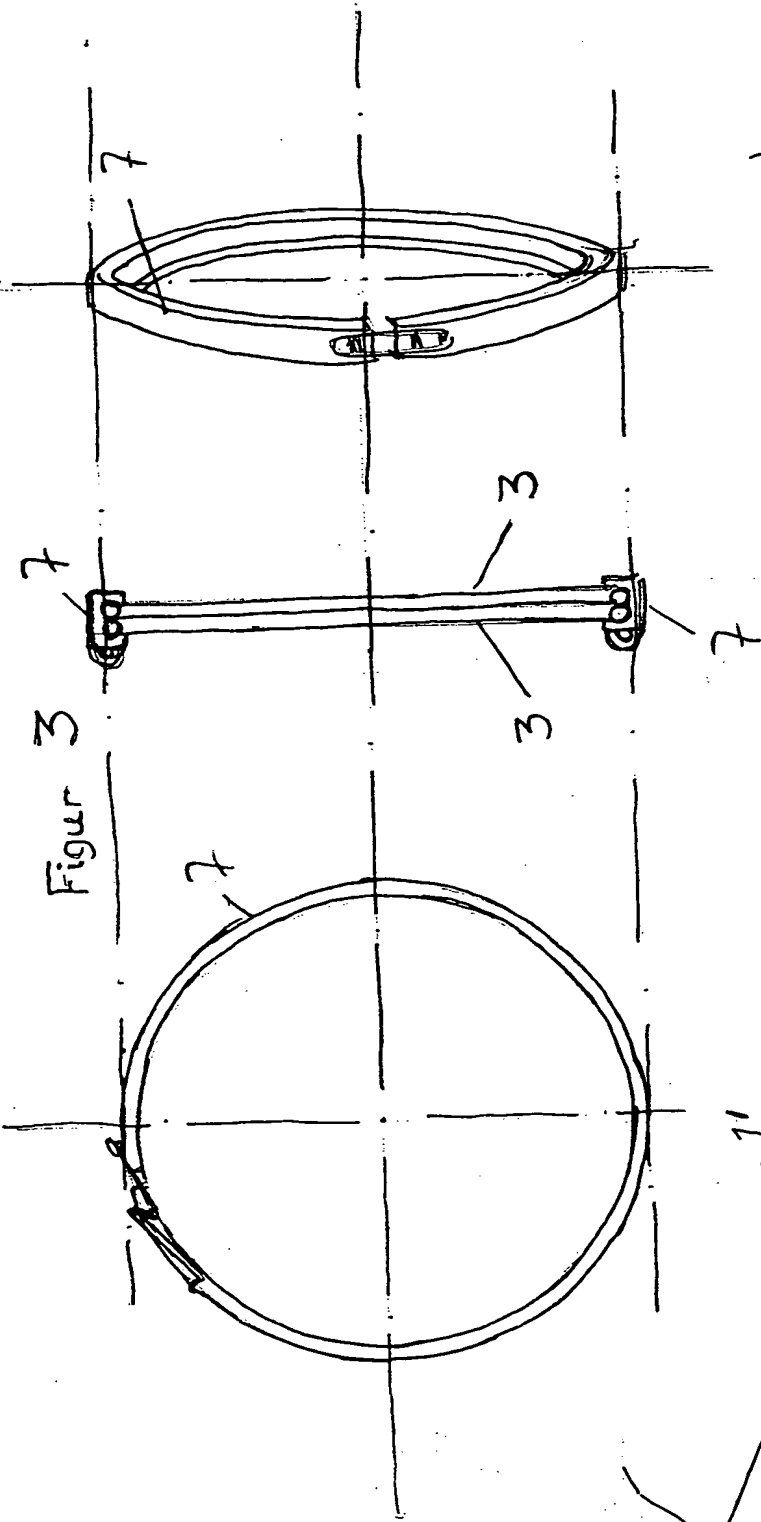
Fig. 1



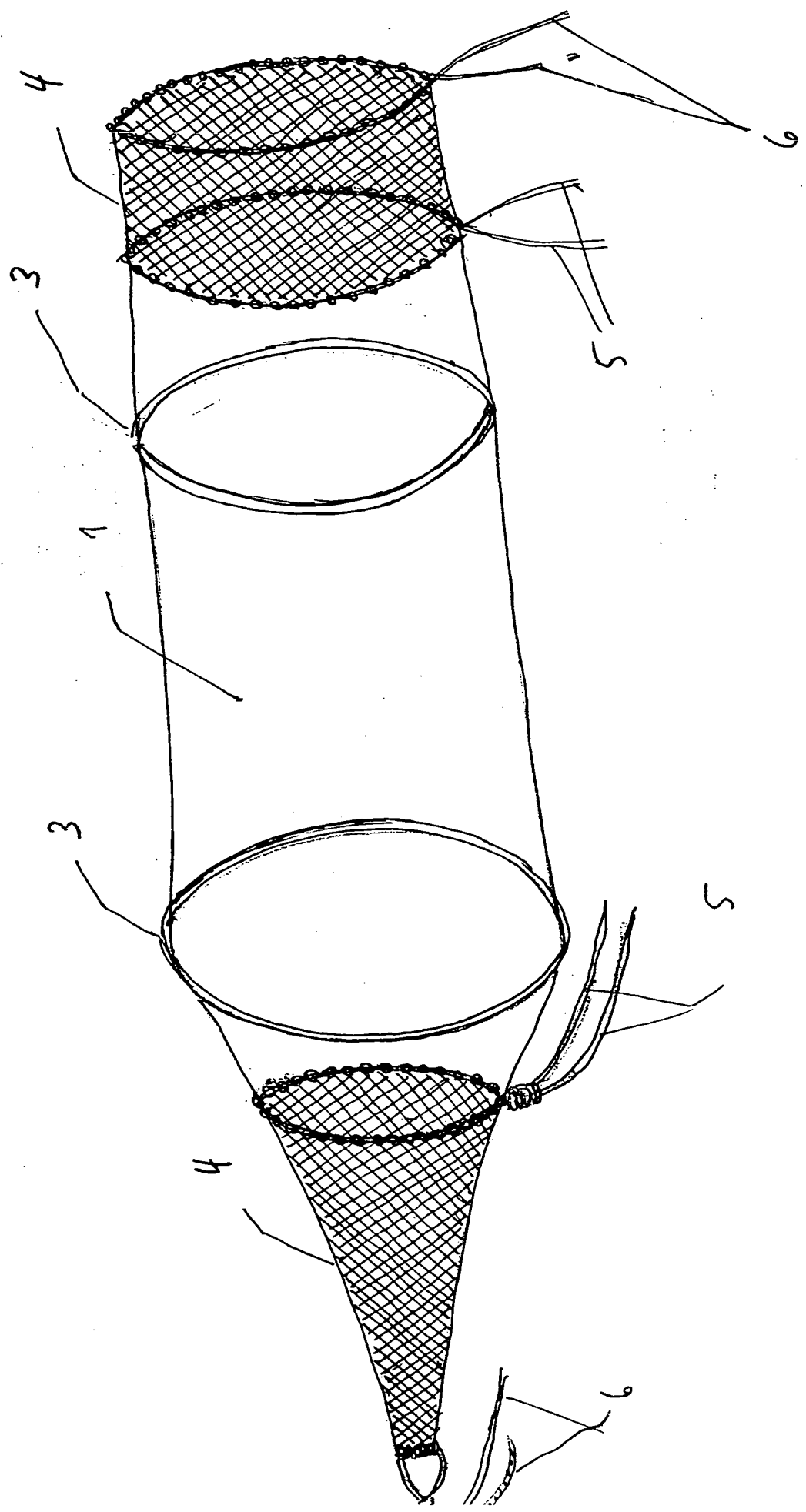
Figur 2



Figur 3



Figur 4



Figur 5

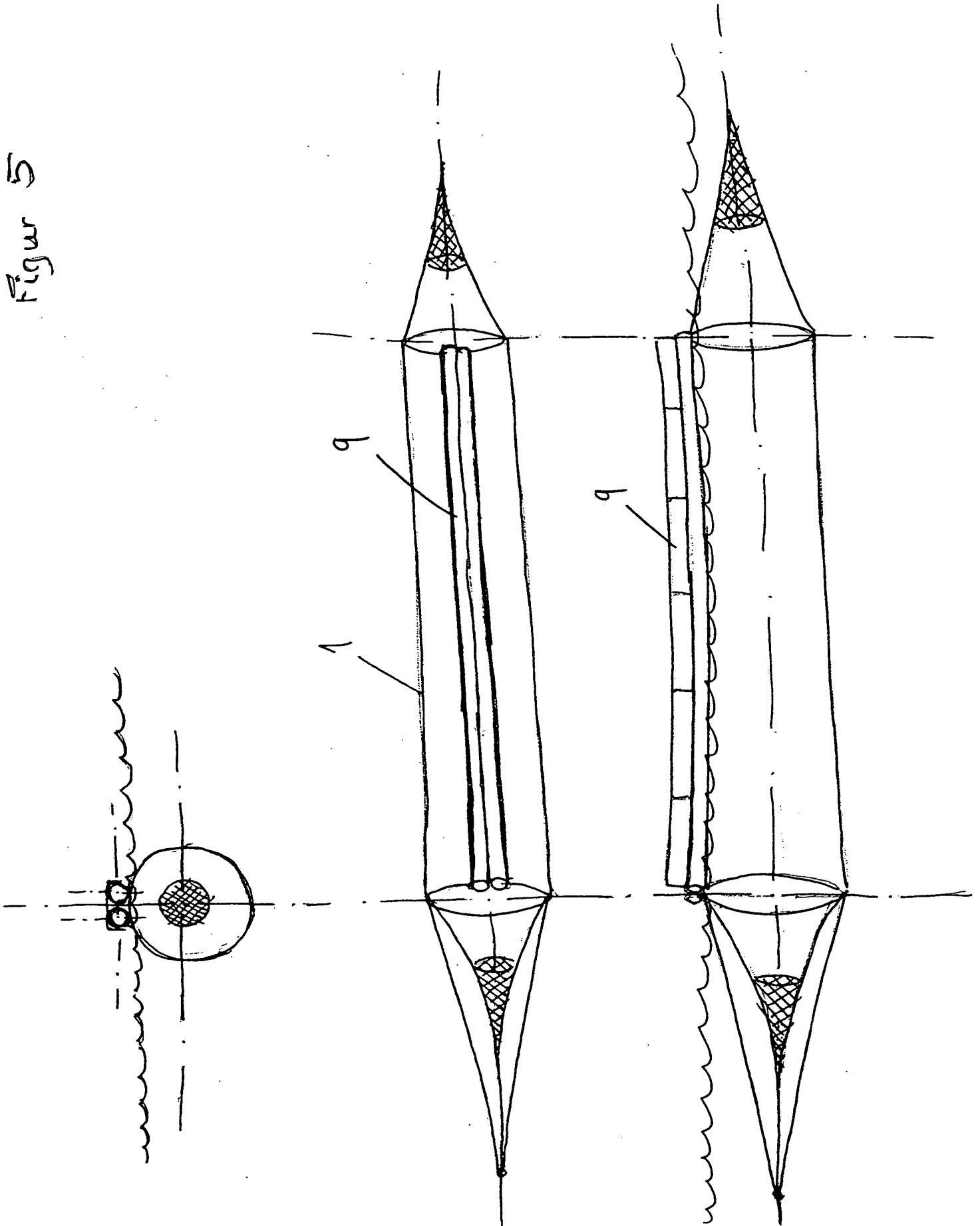
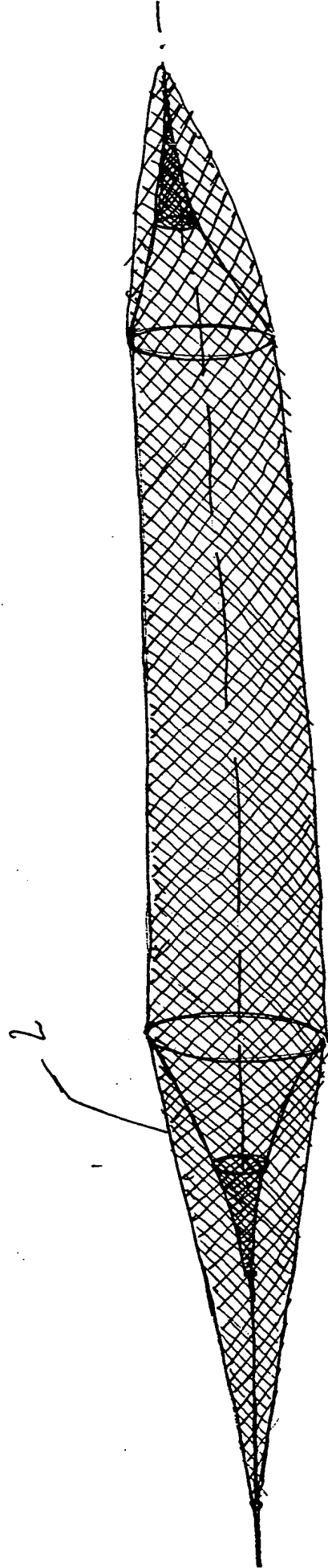


Figure 6



## **Anordning for oppbevaring og transport av levende fisk.**

Oppfinnelsen angår primært en innretning for oppbevaring og transport av levende fisk hvor innretningen er pølseformet og transporten skjer fortrinnsvis ved at denne slepes etter båt.

Høsting av havet i form av fiske er et den største og eldste næring her i landet gjennom historien I dag er fiskeeksporten dersom man ser bort fra petroleumsområdet vår største næring i kroner og det å kunne utføre sikre leveranser av produkter med høy kvalitet, er av avgjørende betydning for at det skal forbli en stor næring også i fremtiden.

Det dumpes store mengder fisk fordi man ikke har kapasitet til å føre den på land eller den ikke er av helt riktig kvalitet.

Det er flere faktorer som er medvirkende til å bestemme kvaliteten på fisken og fiskeprodukter når de når frem til forbrukerne en eller annen plass i verden. Idet fisken dør starter en prosess i fiskekjøttet som forringer det. Kvaliteten på fiskekjøttet når det når frem til forbrukes kan økes ved at man venter lengst mulig med å ta livet av fisken slik at forringelsesprosessen er kommet kortest mulig. Den videre behandlingen av fisken i form av bearbeiding, foredling, lagring og transport, bør gjøres kortest mulig og under best mulige forhold for å opprettholde kvaliteten.

Den å forsinke tidspunktet for slakting og start av forringelsesprosessen, er en metode som har vært benytte i flere sammenhenger også noe tilbake i historien. I sesonger med for eksempel god tilgang på seil og kanskje mangel på kapasitet på mottakene i land, er det å sette fiske i steng vanlig. Det gjøres ved at fisk som er fanges levende står stengt inne i en notpose som er forankret, til den hentes og håves inn i brønnbåt eller notposen tauet til et fiskemottak. Fisk som lukkes slik i steng, blir stående trangt kanskje det er dårlige strømforhold og det stresser fisken som igjen reduserer kvaliteten og fisk dør.

Det benyttes brønnbåter for å hente fisken fra steng. Brønnbåter er utstyrt med tanker som pumpes inn sjøvann i og hvor fiske oppbevares under transport til fiskemottak. Brønnbåter er en kostbar løsning og når man i tillegg det mange tilfeller er mye fisk som dør i stengene før brønnbåter henter dem, så blir kanskje det økonomiske resultatet av fisken ikke formålstjenlig i mange tilfeller.

I norsk patent nr. 20.850 er det beskrevet en oppbevaringsenhet for levende fisk bestående av flottører i begge ender og mellom disse nettlignende bur for

oppbevaring av fisk. En slik løsning er egnet for oppbevaring av fisk, er noe mer kostbar enn nødvendig, og er ikke noen god løsning med tanke på transport. Transport av fisk i slike innretninger vil ha sin begrensning hvor hurtig den kan transporteres for at fiske skal overleve, hvilket ikke er noen økonomisk god hastighet for transporten i seg selv.

Norsk patent nr. 81.500 beskriver beholder for oppsamling av fisk fra en trål og for videre transport av oppsamlet levende fisk til mottak og kortere oppbevaring. Oppsamleren er knytte til en trålpose og ansees ikke å være noen god måte å oppbevare og frakte fisk på med tanke på å opprettholde kvalitet og unngå fiskedød.

I tillegg til transport av fisk mer eller mindre lukkede hydrodynamiske innretning, transporteres fisk i slep i nettposer, merder. Slepet kan ikke komme holde større fart en 2-3 knop hvilket er svært tidkrevende. Slike løsninger er beskrevet i norsk patent nr. 24.069 og 52.761. Den førstnevnte beskriver en notpose som holdes utspilt av et flytelegeme og hele innretning trekkes av en båt. En større fart enn 2-3 knop vil være stressende for fisken og skape forhold som øker dødelighet. I nr. 52.761 beskrives en noen tilsvarende innretning, men her er det lagt vekt på at det finnes innretninger i tillegg til notposen som holder denne oppspilt for å unngå at den klemmes sammen under transport.

En beholder for transport av levende fisk hvor det også er gjennomstrømning av vann fremgår av norsk patent nr. 105.955. En gjennomstrømning som kan reduseres ved at ende delvis består av fast gitter eller at ende er trakteformet. Dette for å redusere bokseringsmotstanden og hinder død av fisk.

Hensikten med foreliggende oppfinnelse er å fremskaffe en innretning som egner seg til oppbevaring og transport av levende fisk for transporthastigheter langt over (10-12 knop) det fisken kan tåle, men uten at det forringer den miljø. Oppfinnelsen tar mål av seg til å ha en slik pris at det er konkurransemessig det som finnes av transportinnretninger for levende fisk.

Dette oppnås ved att en fiskepose anordnet i begge ender med poseringer og hvor det minste i en ende er anordnet et 1. nett og en trakt med snørpemekanisme.

Ytterligere detaljer ved oppfinnelsen vil fremgå av den etterfølgende gjennomgangen av et eksempel på utførelse av denne under henvisning til tegningene.

Figur 1 viser grunnforming av oppfinnelsen.

Figur 2 viser sammenkobling av flere enheter til større poser.

Figur 3 viser koblingsenheter for flere enheter sammen til større poser.

Figur 4 viser detaljutforming av oppfinnelsen yttervegg.

Figur 5 viser oppfinnelsen utstyrt med avstivning og forankring av posen.

Figur 6 viser fiskeposen under transport med et ekstra ytre nett.

Oppfinnelsen består av en fiskepose 1 som er tilvirket i en sterk duk.

Dersom man ønsker en ekstra styrke under for eksempel transport, kan man innhulle hele fiskeposen 1 i et 1. nett 2. Se figur 6. Fiskeposen 1 er rørformet og anordnet med en posering 3 i begge ender noe innenfor enden for å holde rørformen utspilt. Det er anordnet til endene av fiskeposen 1 et rørformet 2. nett 4. I overgangen mellom fiskeposen 1 og det 2. nettet 4, finnes en 1. snurpeline 5. En 2. snurpeline 6 finnes i den andre enden av det 2. nettet 4. Ved hjelp av disse snurpelinene 5,6, kan fiskeposen 1 snøres sammen og bli lukket i enden slik at fisk ikke kommer ut, men man vil kunne bestemme og styre gjennomstrømningen av vann i fiskeposen 1. Dette fremgår av figurene 1 og 4.

Flere fiskeposer 1 kan kobles sammen til større enheter som vist i figur 2. Sammenkoblingen skjer ved at poseringer 3 fra to fiskeposer 1 legges inntil hverandre, og føyes sammen av en låsering 7. Se figur 3. I sammenkoblingen vil det således forefinnes to slike traktformede enheter, en fra hver fiskepose 1. Når fiskeposen 1, 1' skal slepes etter båt, så kan det kobles ekstra slepelinier 8 mellom båt og poseringen 3.

Under transport av fisk i fiskeposen 1, 1' er den 1. snurpelinen 5 delvis lukket og den 2. snurpelinen 6 helt lukket slik at gjennomstrømning av vann blir passe stor og behagelig for fisken.. Fiskeposen 1 kan transporteres med stor hastighet til bestemmelsesstedet uten at fisken skades eller dør.

Ved bruk av foreliggende oppfinnelse kan fisk slepes til land, lagre den levende til mottaket har kapasitet eller markedet gir bedre pris. Videre kan fisken slepes nærmest mulig markedet i levende tilstand før den slaktes.

Ifølge meldinger fra Fiskeridepartementet vil et større antall fiskemottak langs kysten bli nedlagt innen kort tid. Det betyr lengere transport for levering av fisk og større behov for transport av fisken levende for opprettholdelse av kvaliteten.

Ved oppbevaring av fiskeposen 1, 1' i sjø for levende lagring av fisken, kan det til fiskeposen 1,1' anordnes langsgående avstivere 9 i form av for eksempel rør. Se figur 5. Disse kan også fungere som vandring for personer som ser til passer fisken. Fiskeposen (1) kan påsettes strømsettere i form av motordrevne propeller for å opprette ønsket vanngjennomstrøming når fiskeposen (1) er i ro, f.eks. ved oppbevaring av fisk.

**PATENTKRAV**

1. Anordning for oppbevaring og transport av levende fisk, **karakterisert ved** en fiskepose (1) anordnet i begge ender med poseringer (3) og hvor det i endene er anordnet et 2. nett (4) og med snurpeliner (5,6).
2. Anordning for oppbevaring og transport av levende fisk ifølge krav 1, **karakterisert ved** at flere fiskeposer (1) er anordnet sammen ved hjelp av låseringer (7).
3. Anordning for oppbevaring og transport av levende fisk ifølge et av de foregående kravene, **karakterisert ved** at det i ene enden av fiskeposen (1,1') er anordnet slepelinier (8).
4. Anordning for oppbevaring og transport av levende fisk ifølge krav 1, **karakterisert ved** at det er anordnet minst en avstivere (9) til fiskeposen (1,1').
5. Anordning for oppbevaring og transport av levende fisk ifølge krav 1, **karakterisert ved** at det rundt fiskeposen (1) er anordnet et 1. nett (2).

**SAMMENDRAG**

En fiskepose (1,1') bestående av duk med poseringer (3) og i enden et 2. nett (4) med snurpeliner (5,6) og en slepeline (9). En eller flere avstivere (9) og låseringer (8) for å koble sammen flere fiskeposer (1) til større enheter.

Figur 1.